10th Class 2021

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- The unit of electric power is:

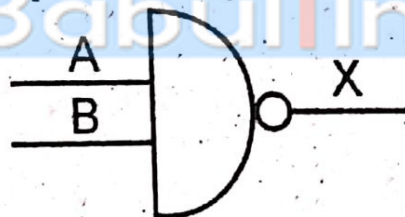(a) Ohm   (b) Watt ✓

(c) Farad   (d) Joule

2- Number of components of computer-based information system is:

(a) 3   (b) 4

(c) 5 ✓   (d) 6

3- The S.I unit of electric field intensity is:

(a) NC^{-2} (b) NC^{-1} ✓

(c) NC (d) Nm

4- The logical operation performed by this gate is:

(a) AND   (b) NOR

(c) OR   (d) NAND ✓

5- Generally an atom is represented by the symbol:

(a) $_Z^A X$ ✓   (b) $_A^Z X$

(c) $_{Z+N}^Z X$ (d) $_{A+Z}^A X$

6- **Waves transfer:**
   (a) Velocity   (b) Energy ✓
   (c) Wavelength   (d) Frequency

7- **Formula of e.m.f is equal to:**
   (a) $E = \dfrac{Q}{W}$ (b) $E = \dfrac{Q}{t}$
   (c) $E = \dfrac{W}{t}$ (d) $E = \dfrac{W}{Q}$ ✓

8- **The unit of intensity of sound is:**
   (a) Wm^{-2} ✓   (b) Wm^{2}
   (c) Wm^{-1} (d) Wm

9- **For an ideal transformer:**
   (a) $P_p < P_s$ (b) $P_p > P_s$
   (c) $P_p = P_s$ ✓   (d) $P_p \neq P_s$

10- **Capacitance of any capacitor is equal to:**
   (a) $C = \dfrac{Q}{V}$ ✓   (b) $C = \dfrac{V}{Q}$
   (c) $C = QV$ (d) $C = \dfrac{1}{QV}$

11- **Snell's law is:**
   (a) $n = \dfrac{\sin r}{\sin i}$ (b) $n = \sin r$
   (c) $n = \dfrac{\sin i}{\sin r}$ ✓   (d) $n = \sin i$

12- **Boolean expression of NOR gate is:**
   (a) $X = A \cdot B$ (b) $X = A + B$
   (c) $X = \overline{A + B}$ ✓   (d) $X = \overline{A \cdot B}$